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APPLICANT : MATSUSHITA ELECTRIC WORKS LTD;

INVENTOR : HAYASHI TAKAO;

INT.CL. : C23C 14/20

TITLE : FORMATION OF METALLIC FILM ON ORGANIC SUBSTRATE SURFACE

ABSTRACT : PURPOSE: To attach a metallic film firmly to an org. substrate by irradiating the substrate surface with a light of wavelength activating bonding, further applying an amine soln. and then forming a metallic film by a vapor deposition method.

CONSTITUTION: The surface of an org. substrate is irradiated with a light having an energy equivalent to the binding energy of the substrate surface. The light activates the substrate surface to form a functional group such as -OH. The amine group of an amide soln. reacts with the functional group such as -OH to form an amide group. Since the amide group is highly reactive with the metal, the metallic film is firmly attached to the substrate surface. When the substrate surface is heat-treated or treated with plasma after the amine soln. is applied, the formation of the amide group is promoted more surely and preferably.

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Set Items Description

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Electroluminescent device - has laminated encapsulation consisting of several layers

Patent Assignee: BOSCH GMBH ROBERT (BOSC)

Inventor: GROTHE W; HUEPPAUFF M; SCHMIDT C

Number of Countries: 020 Number of Patents: 002

Patent Family:

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DE 19603746 A1 19970424 DE 1003746 A 19960202 199722 B

WO 9716053 A1 19970501 WO 96DE1872 A 19960926 199723

Priority Applications (No Type Date): DE 1039050 A 19951020

Cited Patents: 1.Jnl.Ref; EP 326615; EP 350907; EP 372489; JP 7282975; US
5189405

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

DE 19603746 A1 7 H05B-033/04

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Designated States (National): JP KR US

Designated States (Regional): AT BE CH DE DK ES FI FR GB GR IE IT LU MC
NL PT SE

Abstract (Basic): DE 19603746 A

The electroluminescent lamination system (12) comprises a light emitting organic material between two electrodes connectable to a DC voltage source, and an encapsulation (28). The first electrode is a hole injection anode, while the second one is an electron injecting cathode.

The encapsulation consists of a laminated system (32), pref. with flexible layers (34, 36, 38), contg. a laminate geometry adapted to the electroluminescent laminate contour. The encapsulation laminate is typically deposited onto one side of the electroluminescent laminate, surrounding the electrodes (16, 18) and the organic material (14).

ADVANTAGE - Efficient protection against oxygen and water, and flexible configuration.

Dwg.1/3

Title Terms: ELECTROLUMINESCENT; DEVICE; LAMINATE; ENCAPSULATE; CONSIST;
LAYER

Derwent Class: U14; X26

International Patent Class (Main): H05B-033/04

International Patent Class (Additional): H05B-033/12

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